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UNITED STATES OF AMERICA  
FOOD AND DRUG ADMINISTRATION  
CENTER FOR DEVICES AND RADIOLOGICAL HEALTH

\* \* \*

NATIONAL MAMMOGRAPHY QUALITY ASSURANCE

ADVISORY COMMITTEE

\* \* \*

MEETING

\* \* \*

MONDAY,

APRIL 19, 2004

The Advisory Committee met at 9:00 a.m. in the Walker/Whetstone Room of the Gaithersburg Holiday Inn, Two Montgomery Village Avenue, Gaithersburg, Maryland, Maryanne Harvey, Chairperson, presiding.

PRESENT:

MARYANNE HARVEY, M.S.	Chairperson
JAMES F. CAMBURN, B.S.	Member
E. SCOTT FERGUSON, M.D.	Member
MILES G. HARRISON, JR., M.D	Member

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regarding its accuracy

PRESENT (Continued):

JESSICA W. HENDERSON, Ph.D.	Consumer Representative
CAROLYN B. HENDRICKS, M.D.	Member
ANDREW KARELLAS, Ph.D.	Member
MELISSA C. MARTIN, M.S.	Member
CAROL J. MOUNT, R.T. (R) (M)	Member
LINDA S. PURA, R.N., M.P.A.	Consumer Representative
CATALINA R. RAMOS, M.D.	Consumer Representative
AMY R. RIGSBY, R.T. (M)	Member
JULIE E. TIMINS, M.D.	Member
CHARLES FINDER, M.D.	Executive Secretary

FDA PRESENTERS:

HELEN J. BARR, M.D.

MICHAEL P. DIVINE, M.S.

ROBERT PHILLIPS, Ph.D.

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## P R O C E E D I N G S

(9:01 a.m.)

CHAIRPERSON HARVEY: I would like to call to order this meeting of the National Mammography Quality Assurance Advisory Committee.

I also request that everyone in attendance at this meeting sign in on the sign-in sheet that is available at the door.

I note for the record that the voting members present constitute a quorum as required by 21 CFR, Part 14.

It's nice to see returning members of the committee, and to meet our new members of the committee. I would like us now to introduce ourselves, and we welcome also the members of the public and speakers and people from FDA. Good morning.

Melissa, would you be so kind as to introduce yourselves?

MS. MARTIN: Sure. Now let me get this down so that we can actually talk into it.

My name is Melissa Martin. I'm a medical

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1 physicist running a consulting practice in Southern  
2 California. We provide the medical physics services  
3 to approximately 200 mammography facilities at this  
4 point.

5 DR. HENDRICKS: I'm Carolyn Hendricks.  
6 I'm a medical oncologist in Bethesda.

7 MS. RIGSBY: I'm Amy Rigsby. I'm a  
8 mammographer and the Technical Director for The Rose  
9 in Houston Texas.

10 DR. KARELLAS: I'm Andrew Karellas. I'm  
11 a medical physicist and professor of radiology at  
12 Emory University.

13 DR. HENDERSON: I'm Jessica Henderson.  
14 I'm a professor of public health at Western Oregon  
15 University, and I'm the consumer rep. on this panel.

16 DR. TIMINS: I'm Julie Timins. I'm a  
17 radiologist in Jersey City, New Jersey, and I'm also  
18 on my State Commission on Radiation Protection.

19 CHAIRPERSON HARVEY: I'm Maryanne Harvey.  
20 I'm with the New York State Department of Health and  
21 Chairperson of this committee.

22 DR. FINDER: I'm Charles Finder. I'm the

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1 Executive Secretary of the committee. I'm also  
2 Associate Director of the Division of Mammography  
3 Quality and Radiation Programs, and I'm a radiologist.

4 MS. MOUNT: I'm Carol Mount. I'm a  
5 mammographer, and I'm the supervisor of the Breast  
6 Imaging Department at the Mayo Clinic in Rochester,  
7 Minnesota.

8 DR. FERGUSON: I'm Scott Ferguson. I'm a  
9 radiologist from Arkansas.

10 DR. HARRISON: I'm Miles Harrison. I'm an  
11 associate professor of surgery associated with Sinai  
12 Hospital, a Hopkins affiliate in Baltimore, Maryland.

13 MS. PURA: I'm Linda Pura. I'm a clinical  
14 coordinator for the Cancer Detection Program, Los  
15 Angeles County.

16 MR. CAMBURN: I'm Jim Camburn. I'm Chief  
17 of the Radiation Safety Section of the Michigan  
18 Department of Community Health.

19 DR. RAMOS: Catalina Ramos. I am the  
20 consumer representative for this committee, and I also  
21 am the Director to the Midwest Latino Health Research,  
22 Training, and Policy Center at the University of

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1 Illinois.

2 CHAIRPERSON HARVEY: Thank you.

3 Dr. Finder will now read the conflict of  
4 interest statement.

5 DR. FINDER: The following announcement  
6 addresses conflict of interest issues associated with  
7 this meeting and is made a part of the record to  
8 preclude even the appearance of any impropriety.

9 To determine if any conflict existed, the  
10 agency reviewed the submitted agenda and all financial  
11 interests reported by the committee participants. The  
12 conflict of interest statutes prohibit special  
13 government employees from participating in matters  
14 that could affect their or their employers' financial  
15 interests.

16 However, the agency has determined that  
17 participation of certain members, the need for whose  
18 services outweighs the potential conflict of interest  
19 involved, is in the best interest of the government.  
20 Therefore, waivers permitting full participation in  
21 general matters that come before the committee have  
22 been granted for certain participants because of their

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1 financial involvement with facilities that will be  
2 subject to FDA's regulations on mammography quality  
3 standards with accrediting, certifying, or inspecting  
4 bodies, with manufacturers of mammography equipment,  
5 or with their professional affiliations since these  
6 organizations could be affected by the committee's  
7 deliberations.

8 These individuals are Mr. James Camburn,  
9 Dr. Edgar Ferguson, Ms. Alisa Gilbert, Ms. Maryanne  
10 Harvey, Ms. Jessica Henderson, Dr. Andrew Karellas,  
11 Ms. Carol Mount, and Dr. Julie Timins.

12 Waivers are currently on file for Dr.  
13 Miles Harrison, Dr. Carolyn Hendricks, Ms. Melissa  
14 Martin, Ms. Linda Pura, Dr. Catalina Ramos-Hernandez,  
15 and Ms. Amy Rigsby.

16 Copies of the waivers may be obtained from  
17 the agency's Freedom of Information Office, Room 12A-  
18 15 of the Parklawn Building.

19 We would like to note for the record that  
20 if any discussion of states or certifying bodies was  
21 to take place in any meetings of the committee, it  
22 would be a general discussion only. No vote would be

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1 taken and no consensus sought.

2 In the interest of getting as many  
3 viewpoints as possible, all SGEs, including state  
4 employees, would be allowed to participate in the  
5 general discussion so that all viewpoints could be  
6 heard.

7 In the event that the discussions involve  
8 any other matters not already on the agenda in which  
9 an FDA participant has a financial interest, that  
10 participant should excuse him or herself from such  
11 involvement, and the exclusion will be noted for the  
12 record.

13 With respect to all other participants, we  
14 ask in the interest of fairness that all persons  
15 making statements or presentations disclosed any  
16 current or previous financial involvement with  
17 accreditation bodies, states doing mammography  
18 inspections under contract to FDA, certifying bodies,  
19 mobile units, breast implant imaging, consumer  
20 complaints, and mammography equipment.

21 CHAIRPERSON HARVEY: Thank you, Dr.  
22 Finder.

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1                   Now we will begin committee business. Any  
2                   committee members have any particular business they  
3                   would like to raise at this time?

4                   (No response.)

5                   CHAIRPERSON HARVEY:    No?    All right.  
6                   We'll move on to the approval of alternative  
7                   standards.

8                   DR. FINDER:   This is Dr. Finder.

9                   For those not familiar with this section  
10                  of the regulations, which is 900.18, FDA may approve  
11                  an alternative to a quality standard that occurs under  
12                  Section 900.12 when the agency determines that the  
13                  proposed alternative standard will be at least as  
14                  effective in assuring quality mammography as the  
15                  standard it proposes to replace, and the proposed  
16                  alternative is too limited in its applicability to  
17                  justify an amendment to the standard or offers an  
18                  expected benefit to human health that is so great that  
19                  the time required for amending the standard would  
20                  present an unjustifiable risk to human health, and the  
21                  granting of the alternative is in keeping with the  
22                  purpose of the statute.

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1                   Since last April's meeting, the division  
2                   has approved five alternative standards. Two deal  
3                   with the amount of time a facility has to correct the  
4                   problem identified during routine quality control  
5                   testing when using the GE and the Hologic full-field  
6                   digital mammography units.

7                   The original regulation stated that if any  
8                   QC test failed in a full-field digital system, the  
9                   system could not be used until the problem was  
10                  corrected. These two alternatives, as well as an  
11                  earlier alternative approved in June 2002, give the  
12                  facility up to 30 days to correct certain problems  
13                  that are comparable to the 30-day correction period  
14                  allowed for film screen units.

15                  And as I said, there were two alternative  
16                  standards approved. They're available on our Website.

17                  There were also three alternative  
18                  standards that deal with the use of assessment  
19                  categories. They are assessment category for post  
20                  procedure mammograms for marker placement,  
21                  modification in the assessment categories used in  
22                  medical reports, and separate assessment categories

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1 for findings in each breast.

2 These alternative standards basically add  
3 two new assessment categories to the six originally  
4 listed in the regulations and under certain conditions  
5 allow the use of separate assessment categories for  
6 each breast.

7 All of these alternatives in their  
8 entirety are available on our Website in the policy  
9 guidance help system.

10 Does anybody have any questions?

11 (No response.)

12 CHAIRPERSON HARVEY: Thank you, Dr.  
13 Finder.

14 This begins the section which is the open  
15 public meeting. I have a statement I would like to  
16 read.

17 Both the Food and Drug Administration and  
18 the public believe in a transparent process for  
19 information gathering and decision making. To insure  
20 such transparency at the open public hearing session  
21 of the Advisory Committee meeting, FDA believes that  
22 it is important to understand the context of an

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1 individual's presentation.

2 For this reason, FDA encourages you, the  
3 open public hearing speaker, at the beginning of your  
4 written or oral statement to advise the committee of  
5 any financial relationship that you may have with the  
6 sponsor, its product, and, if know, its direct  
7 competitors.

8 For example, this financial information  
9 may include the sponsor's payment of your travel,  
10 lodging, or other expenses in connection with your  
11 attendance at the meeting. Likewise, FDA encourages  
12 you at the beginning of your statement to advise the  
13 committee if you do not have any such financial  
14 relationships. If you choose not to make the  
15 statement of the financial relationships at the  
16 beginning of your statement, it will not preclude you  
17 from speaking.

18 Do we have any individuals who would like  
19 to come forward? Dr. Reicher.

20 I think he has got his PowerPoint  
21 presentation. This is Dr. Murray Reicher, who is with  
22 DR Systems, Incorporated.

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1 Welcome this morning.

2 DR. REICHER: Thank you very much.

3 Do I have ten to 15 minutes?

4 CHAIRPERSON HARVEY: Fifteen minutes.

5 DR. HENDERSON: Okay. Great. Good  
6 morning. I'm Murray Reicher. I'm a radiologist. I  
7 practice in San Diego. They may not admit it, but I  
8 was trained at UCLA, and I'm with a private group  
9 called Radiology Medical Group and also a part owner  
10 of some imaging centers in San Diego owned by a  
11 corporate entity called Radiology Service Partners.

12 About 12 years ago I started a PACS  
13 company along with another physician, Dr. Evan Fram,  
14 and that's DR Systems, and DR Systems today probably  
15 has about ten to 20 percent of the U.S. PACS installed  
16 base.

17 So I'd like to present to you -- and  
18 funded by all of them. I'm full of conflict of  
19 interest. I don't know whether I'm George Plimpton  
20 or Zelig, but as a neural radiologist who started off  
21 ballooning aneurysms and embolizing AVMs, I've found  
22 myself at a very interesting variety of radiology

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1 meetings over the years, this being one of them.

2 Now, let's see if I can figure out how to  
3 get to my next slide.

4 Okay. So I'm probably stating the obvious  
5 to everyone. I don't want to waste your time, but the  
6 goals of mammography, as I see it, today are  
7 optimization of three factors: accuracy, safety, and  
8 cost.

9 And so I've gone through the literature  
10 and examined my own practice and the installed base  
11 that we have of about 300 radiology practices and  
12 tried to understand better what determines accuracy,  
13 safety and cost, and clearly the number one factor is  
14 expertise of readers, which is something that this  
15 organization often treads lightly on, but I'd like to  
16 discuss that a little bit more.

17 Adjunct technologies, such as computer  
18 aided detection, double reading, which I'll call an  
19 adjunct technology; we don't get reimbursed the same  
20 way for double reading as we do for CAD, but it  
21 probably accomplishes about the same thing.

22 Tech preview; all can improve lesion

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1 detection, but it has a marginal effect relative to  
2 the expertise of the initial reader.

3 Image acquisition technology certain  
4 affects quality cost and efficiency of producing  
5 mammography. So you may have a device that costs a  
6 lot more, but in theory the cost of production per  
7 unit mammogram may be equal or less in theory. In  
8 reality it's not clear whether that occurs or not.

9 Required technologies for display,  
10 archive, and transportation of digital or film screen  
11 mammograms plays a role, and regulation plays a role  
12 in determining both cost and quality, and we're here  
13 to optimize that as well, and there are other factors.

14 But I think these are the main factors:  
15 the expertise of the reader, the adjunct technologies,  
16 the primary image acquisition technology, and what's  
17 used to display the mammograms and move them around.

18 Okay. So what controls those factors, you  
19 might ask. Dig a little deeper, and the problem is  
20 that the factors that control accuracy, safety and  
21 cost are often in conflict with each other, and some  
22 just common sense examples so that everybody knows

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1 what I'm talking about, you may use digital technology  
2 instead of film screen. Some believes that that  
3 improve quality, but it also some believe increases  
4 cost. That's a controversial one.

5 Double reading we know increases accuracy,  
6 but it certainly increases cost. You can compress a  
7 breast and improve image quality. You can increase  
8 radiation and improve image quality, but obviously  
9 within reason. There are conflicts there as well. If  
10 you compress a breast too much, you could hurt a  
11 woman. If you over radiate, that's a bad thing to do.  
12 You cause cancers.

13 Things like data compression may negative  
14 impact image quality if over applied, but at the same  
15 time can increase access to experts via  
16 telemammography. So the problem is that we're all  
17 faced with the need to balance off all of these  
18 factors that are in conflict with each other, and that  
19 the only logical solution is, in fact, to try to  
20 obtain a balance, but to do that, you have to weigh  
21 each factor appropriately.

22 So if we focus solely on technical

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1 factors, and the big issue in mammography is expertise  
2 to the readers and we have great image quality but  
3 unexpert readers, we're really not accomplishing what  
4 I think is really the ultimate FDA mandate with regard  
5 to quality assurance and mammography.

6 So I call this mind over matter theory.  
7 It's not the theory that says if you don't mind it  
8 doesn't matter. It's the one that says that it's  
9 what's in the radiologist's head that matter more than  
10 technology.

11 And this wasn't always true, but I think  
12 today because of regulation and industry's  
13 contribution, we've reached a state in the industry  
14 where we have kind of a threshold of technical quality  
15 right now both with film screen and digital  
16 mammography and possibly even with digitized film  
17 screen mammography where the impact of technology has  
18 a very small effect or incremental improvements in  
19 technology today have a very small effect relative to  
20 accessing expertise of the reader.

21 And I think the big, latent need today in  
22 the field of mammography is getting medical images to

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1 those who do the best job reading them.

2 Digital versus film screen technology,  
3 that's been studied and studied, and there's more  
4 studies going on, but I hope not to offend anybody  
5 here, but the effect seems to be marginal since it is  
6 taking a lot of study to prove whether there is any  
7 effect in terms of quality, cost, and accuracy between  
8 digital and film screen technology.

9 We all acknowledge that digital is the  
10 future, but it would be hard to say that it as a  
11 technical factor alone has a big impact. At best it  
12 seems to be maybe marginally better quality at higher  
13 cost or if you're really busy and efficient, maybe you  
14 could drive the cost down.

15 CAD is the same thing. The benefit of CAD  
16 and double reading is anywhere from five to 20  
17 percent, but expert readers do a 200 percent or 150  
18 percent better job than non-expert readers in  
19 detecting breast cancer, and that's from a series of  
20 published articles that primarily have come out of the  
21 academic world. And I think in the private world the  
22 variance is even greater.

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1                   This is just one of many papers. You guys  
2                   are familiar with this. So, again, I don't want to  
3                   waste your time, but this is a paper by Sickles.  
4                   There are now more recent articles, Beam, Elmore, et  
5                   cetera.

6                   But this is what all of them are showing,  
7                   that cancer detection rates for screening among  
8                   experts in screening mammograms is about six per  
9                   thousands. In generalists, it's maybe three, three  
10                  and a half. Recall rates for screening mammograms are  
11                  significantly lower for experts than they are for  
12                  generalists. Among diagnostic mammograms, specialists  
13                  diagnose breast cancer one and a half to two times  
14                  more frequently.

15                  In this paper, the specialists actually  
16                  had more call-backs for the diagnostics, but since  
17                  screening mammograms are much more common than  
18                  diagnostic mammograms, the overall call-back rate for  
19                  the experts was significantly lower than the  
20                  generalists. This is pretty consistent in our  
21                  literature.

22                  Now, MQSA mandates that we keep data on

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1 our radiologists, but just that we have it, not that  
2 we look at it, and that's probably a political issue  
3 with the ACR, et cetera, but I pulled some data from  
4 a couple of practices that I have a high level of  
5 respect for. One of them did 13,000 mammograms in  
6 2003. It's a very good private practice in Southern  
7 California. You wouldn't hesitate to go in there as  
8 a woman. They're really well reputed.

9 And their diagnostic cancer detection  
10 rates per thousand mammograms read between their  
11 readers ranged from 2.6 to 13. So about a 400 percent  
12 difference in your chance of having your breast cancer  
13 detected depending on whether you show up on a Monday  
14 or a Friday there.

15 Another practice, I took 2002-2003 data.  
16 One of them, 26,000 mammograms a year, 15 readers.  
17 Each had over 1,000 mammos read. The range was from  
18 1.5 to 13.8 of breast cancers detected per thousand  
19 mammos read, and this is a roughly equally distributed  
20 group of screening and diagnostic mammograms with the  
21 screening mammograms outnumbering the diagnostics  
22 about four to one, and in 2002, there was a range of

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1 zero to 23 cancers per thousand mammograms read.

2 So the variance between physician readers  
3 is absolutely enormous and far outweighs any other  
4 technical factor.

5 So given that, I mean, why not the  
6 obvious? I mean, why don't just experts read  
7 mammograms? What's the deal on that?

8 And the answer is, first of all, it's  
9 completely clinically impractical. In the vast  
10 majority of places where mammograms are done today,  
11 it's the general three-ring circus of a radiology  
12 department. There's MR, CTs, ultrasound, nukes,  
13 interventional procedures, lots of other things going  
14 on, and mammography is one of many things done at that  
15 particular hospital or imaging center, and they can't  
16 fund a specialized mammographer. There isn't enough  
17 mammo done at any one site to keep anybody busy for  
18 more than an hour or two a day.

19 And so mammography falls to the person who  
20 can't do everything else well. Okay? So if you're  
21 getting close to retirement and you can't -- sorry,  
22 again. I apologize. I'm not feeling any knives in

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1 the back here -- but, you know, oftentimes if you  
2 can't do interventional radiology and you don't do MRI  
3 and you haven't read a risk MR in a long time, you  
4 know, you don't do myelograms, you can do mammograms.

5 And I'm not saying that -- I'm not  
6 insulting the field of mammographers here. Obviously  
7 there's great mammographers, but this is a reality  
8 that mammography is one of many things done in the  
9 typical place where it's provided, and it's just  
10 absolutely clinically impractical to have a physician  
11 doing only full-time mammography there because they  
12 can't be moved around.

13 Okay, and the next thing is it's just not  
14 financially viable. As an imaging center owner, I can  
15 tell you that we do mammography at a loss. It  
16 actually costs us a little bit more. As hard as we  
17 try every year, and we do it a little harder, it costs  
18 us about 77.50 to do a mammogram and about \$77 is  
19 about what we get global for a mammogram in Southern  
20 California, and that's based on very large data sets  
21 over a period of years in a practice that does  
22 mammography in three different locations.

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1                   So it's not financially viable. Some may  
2                   argue it's not financially viable to do mammography at  
3                   all, but it becomes very difficult if you're trying to  
4                   do mammography with a subspecialized radiologist.

5                   So the big latent need today in  
6                   mammography, in my view, is moving mammograms around,  
7                   and it's not just to get the mammograms in the hands  
8                   of the experts, but also to get the comparison views,  
9                   to lower the costs, to reduce the cost of archive. I  
10                  mean, we have no way of knowing right now just how  
11                  many unnecessary biopsies are done simply because of  
12                  the inconvenience involved in getting the old study.  
13                  So we have to increase the transportability of  
14                  mammograms.

15                  One way of doing this is to digitize film  
16                  screen mammograms. That's a tricky way because that  
17                  depends on the quality of the digitizer and the  
18                  initial mammogram. It could also facilitate  
19                  comparison and lower archive cost, and maybe the  
20                  threshold for primary reading of the digitized film  
21                  screen mammogram and another threshold for using a  
22                  film screen mammogram for comparison.

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1                   If I'm looking for calcs. and the  
2 patient's old mammogram was in Denver, I could wait a  
3 week and have the film shipped to me to San Diego, if  
4 they even arrive, or if somebody there has a digitizer  
5 and I could look at those images in two minutes on the  
6 Internet, I may be able to dispose of that woman's  
7 problems, and if the calcs. were there before and  
8 they're there now, that's good enough.

9                   You know, if they weren't there before,  
10 well, maybe I have to go see the original films in  
11 order to know that they really weren't there or that  
12 the digitizer missed them.

13                  So recall rates and cancer detection rates  
14 can be improved through that process. We can increase  
15 the use of data compression because today a film  
16 screen mammogram is a minimum of ten or I'd say eight  
17 meg. and a maximum digitized could be 50 megabytes.  
18 No practical way to move it over to the type of lines  
19 that are now commonly affording these days like DSL  
20 and cable modems without data compression, and these  
21 images seem to be quite compressible, well, perhaps  
22 without altering image quality. I'll qualify that

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1 statement.

2 Consider the data requirements. You know,  
3 some vendors think a 50 meg. mammo must be better than  
4 an eight meg. mammo. If a 50 meg. mammo can't be  
5 moved and an eight meg. mammo can, and the eight meg.  
6 mammo is read by an expert, you know, I'd like my  
7 wife's mammogram read by an expert, not by a non-  
8 expert given this data.

9 And consider soft copy regulatory  
10 requirements that promote low cost soft copy reading.

11 How about data compression? Lossy versus  
12 lossless, of course, is not the same as visually  
13 destructive versus visually identical. I think the  
14 FDA's position is although there are types of medical  
15 imaging, you can use lossy data compression and it's  
16 up to the discretion of the radiologist.

17 But mammography is not treated the same  
18 way. It's lossless or nothing, and we, I think have  
19 some pretty good evidence that you can exceed the loss  
20 list data compression parameters and end up with  
21 images that people find visually indistinguishable.

22 Consider enabling users and their

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1       physicists to document that data compression was  
2       elected at their site and that it doesn't alter image  
3       quality in adopting a test for that.

4               So my time is up.

5               CHAIRPERSON HARVEY: Yes.

6               DR. REICHER: I'll just get to my last  
7       questions here. The conclusion -- stop. Can I do  
8       something here to --

9               CHAIRPERSON HARVEY: I know.

10              DR. REICHER: Okay. The conclusion is  
11       it's mind over matter here. Improving mammography  
12       safety accuracy and cost can best be achieved by  
13       enabling and promoting adoption of technologies that  
14       increase the probability of reading by experts and a  
15       clear and logical policy for film screen mammograms,  
16       data compression and soft copy reading is needed.

17              And then the questions I have that I hope  
18       can frame some of the discussion is, first and  
19       foremost, when is an image an identical copy because  
20       that, if we had one standard way of establishing that  
21       an image was an identical copy, that would, therefore,  
22       answer the question of when one can digitize and

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1 destroy films, for example, and keep a digital record  
2 only; whether one could use lossy data compression or  
3 nondestructive loss list data compression and related  
4 questions like even if you do degrade the image, what  
5 about the comparison study, what about the referring  
6 physician image distribution issue.

7 I'm going to get a referring doctor image  
8 over the Internet. Does that also have to be a,  
9 quote, perfect image?

10 Currently I think there's a rule that says  
11 I have to give a woman her films. Can I give her a CD  
12 instead that has all of the data on it and it started  
13 off as a digital image?

14 And is there an accepted non-film based  
15 technique for MQSA? That's local inspectors. You  
16 know, what if I don't have film at all? How do you  
17 inspect me?

18 I've gotten sorts of shrugs and not really  
19 sure, and you know, the worst torture is not a yes or  
20 a no here. It's ambiguity.

21 So thank you. I hope that's helpful to  
22 you.

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1 CHAIRPERSON HARVEY: Thank you very much,  
2 Dr. Reicher.

3 Does anyone have any questions at this  
4 time? Lots to think about.

5 (No response.)

6 CHAIRPERSON HARVEY: Thank you.

7 We have one other speaker. Mr. Jerry  
8 Thompson -- Thomas. Excuse me. Doctor, representing  
9 the Department of Radiology and Radiological Sciences  
10 of the Uniformed Services University of Health  
11 Sciences.

12 Good morning.

13 DR. THOMAS: That's a mouthful, isn't it?  
14 Yeah.

15 CHAIRPERSON HARVEY: How are you?

16 DR. THOMAS: Good morning. I'm Jerry  
17 Thomas. Some of you know me; some of you don't. I'm  
18 changing sides of the podium. I was the Department of  
19 Defense's representative liaison with this committee  
20 when MQSA initially started, and I look at the  
21 successes that we collectively have had over the  
22 years, and I'm most impressed.

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1           The reason that I'm speaking is that I  
2           called and talked with Dr. Finder at the end of last  
3           week to find out who was going to be speaking on  
4           compression now that that's an issue that's now  
5           becoming of interest in mammography.

6           I had better back up and give you the  
7           disclosure, too. I have absolutely no conflicts that  
8           are absolute, but there are some potential non-  
9           financial, but apparent conflicts. My research effort  
10          is right now focused on developing the second  
11          generation tomosynthesis system. My research grants  
12          and University of Michigan's research grants are  
13          paying for that, but we're developing that in  
14          conjunction with the General Electric Corporation.

15          I have also done extensive teaching in  
16          imaging physics and mammography with representatives  
17          of each of the three manufacturers that currently have  
18          approved digital mammography systems, and I also teach  
19          a course for technologists for MTMI.

20          So as a government employee, I'm not  
21          compensated for any of that effort, but those are  
22          potentially apparent conflicts if someone would say,

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1 "Well, what's this guy doing?"

2 Well, let me get back to the point of  
3 compression. With the tomosynthesis research effort,  
4 I've started to look critically at the advanced  
5 application.

6 That's not me. that's what's sitting  
7 here. I have no slides for you.

8 If we start to look at advanced  
9 applications, the viewpoint of compression, I think,  
10 is to shift. Traditionally when I was putting  
11 together PACS systems and designing that within the  
12 Department of Defense, we were concerned about two  
13 issues. We were concerned about the storage  
14 limitations and, therefore, of our storage devices  
15 and, therefore, we wanted to compress those data sets.

16 And, secondly, the image data sets when we  
17 were removing them from the battlefield or just doing  
18 teleradiology. And both of those initiatives and  
19 issues required us to look critically at compression  
20 in those settings.

21 Currently most of the PACS vendors do  
22 offer a compression option for data going on to their

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1 archives. Teleradiology data sometimes are or are not  
2 compressed.

3 In the area of mammography, I'm looking at  
4 things probably on a different side of the fence, and  
5 that is what is the impact of the development of  
6 advanced applications in mammography imaging, and what  
7 are the data set sizes going to do to our ability to  
8 move the data rapidly?

9 If we look at tomosynthesis, the current  
10 systems that I have and Dan Kopans has for a four and  
11 a half centimeter breast, we have reconstructed data  
12 of about 360 megabytes for a four and a half  
13 centimeter breast.

14 The next generation system is going to  
15 have over double that. We're going to have between  
16 720 to 780 megabytes of slice information per breast  
17 for a tomosynthesis reconstruction.

18 We need to look critically at what the  
19 issues of compression are and how compression is going  
20 to impact those data sets. I look at lossy  
21 compression in three different ways.

22 Normally we think of compression as being

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1 lossless or lossy, and when we say "lossy," people  
2 throw up their hands and say, "Oh, my gosh, we have  
3 artifacts, and it's dangerous." I think there are  
4 three subsets of lossy compression.

5 The first would be analytically lossless.  
6 I've done some analysis of some compressed data and  
7 depending on the compression ratio and the compression  
8 algorithm, we can have data that have an overall  
9 reduction of one or two or a maximum of three counts  
10 or values in the pixel.

11 What we've not looked at critically is  
12 what is the impact on the nearest neighbor of that  
13 loss. In other words, is there an overall loss which  
14 would be like noise in the image as a result of  
15 compression, or is there an overall loss in the image  
16 that results in the introduction of artifacts or  
17 reduction of contrast within the data set.

18 The second set of lossy compression, a  
19 subset, might be considered to be visually lossless.  
20 This is a compression algorithm that when we do an ROC  
21 study, we display the images and the radiologist  
22 cannot see artifacts, but we do know that the data

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1 have been compressed and decompressed, and that  
2 compression has resulted in an overall net loss of  
3 information in the image.

4 The last is one that a radiologist that I  
5 used to work with came up, and he says, "Well, it's  
6 diagnostic lossless. I can see the artifacts in the  
7 image, but that's not where I'm looking."

8 Well, I understand, but I have as a  
9 physicist a difficult time understanding how the  
10 meaning of diagnostic lossless. At this point in  
11 time, no one has done a critical analysis of any of  
12 these three subsets of compression. There has been  
13 some excellent work that came out of the Sarnoff lab  
14 where the model for the visual discrimination model  
15 specifically looking at what is the impact of  
16 compression on your ability to visualize content.  
17 That's some superb work, and they do have an excellent  
18 model in this arena.

19 The initial results of the work that my  
20 lab has been doing and others that I've discussed  
21 with, I think, show that we can do between an eight to  
22 one to a ten to one lossy compression without overall

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1       loss of data that would impact the diagnostic quality  
2       of a mammography image.

3               Some of the factors that this committee  
4       and the FDA, I think, have to consider very  
5       critically, we already have approved CAD products.  
6       What is going to be the impact of compression on those  
7       systems?

8               Compression is not created equally. By  
9       that I mean the compression algorithm and the approach  
10      to the compression is substantially different. I can  
11      achieve the same compression ratio using different  
12      algorithms and have substantially different visual  
13      results and analytical results on those data sets.

14              So when someone comes to the FDA and say,  
15      "I would like approval of the compression algorithm  
16      that is eight to one or ten to one," the real question  
17      that needs to be asked is: how are you compressing  
18      it, and what is the analytical loss?

19              I'm thinking about ways to actually  
20      measure those. So compression ratios and the  
21      analytical algorithms I feel again need to be looked  
22      at very critically. The issues that we need to

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1 consider are what part of the image is the artifact or  
2 the compression most impacting? Our ability to  
3 visualize an object depends, first to fall, on the  
4 surround in which that object is located, and  
5 secondly, the size of that object, and thirdly then is  
6 the contrast ratio between the object and its  
7 background.

8 Even with compression, we can develop  
9 nonlinear transformations to optimize contrast. So we  
10 can have lossy information, but we can analyze that  
11 data and display it so that the lossy information or  
12 the lossy compression appears to be visually non-  
13 lossless in terms of its compression.

14 So I want to just bring those thoughts to  
15 your attention and let you know that there are some of  
16 us in the research community that have already started  
17 to look at these issues, and I know that there's a lot  
18 more work to be done.

19 Thank you very much.

20 CHAIRPERSON HARVEY: Thank you.

21 Any questions from the panel?

22 (No response.)

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1 CHAIRPERSON HARVEY: Not at this time.

2 Thank you.

3 We are scheduled for a break at this time.

4 However, it's probably a tad early for that. So I

5 think we'll move on to the open committee discussion,

6 which will be the majority of today's meeting, and if

7 it's possible, Dr. Barr, are you ready?

8 Dr. Barr -- give her a minute to get

9 started here -- she's going to talk about the status

10 of MQSA reauthorization, which question we are all

11 very interested.

12 Good morning.

13 DR. BARR: Good morning.

14 CHAIRPERSON HARVEY: Nice to see you.

15 DR. BARR: Good morning. Nice to see you,

16 Maryanne.

17 Good morning. This is Helen Barr. I'm

18 the Acting Deputy Director of the Division of

19 Mammography Quality and Radiation Programs at the FDA.

20 Good morning, everyone.

21 I think I'll start by explaining that

22 particular fact first. In mid-February, our beloved

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1 office director, Rear Admiral Lireka Joseph passed  
2 away, and as the ironies of life would have it after  
3 a battle with recurrent breast cancer.

4 She had just recently been promoted to  
5 rear admiral and was able to attend a promotion  
6 ceremony about that great event in her life just prior  
7 to her death with all of her family attending and by  
8 her side.

9 Excuse me. It's still very hard. Quite  
10 an amazing, amazing woman.

11 Her Deputy, Lynne Rice, moved up into her  
12 position on a permanent basis, and we're in excellent  
13 hands with Lynne as the office director following in  
14 Lee's footsteps and having the privilege of being  
15 mentored by Lee over the last couple of years.

16 John McCrohan, whom most of you know,  
17 moved up to take Lee's place as the Acting Office  
18 Deputy, and hence I moved up into John's place as the  
19 Acting Division Director. So that's where we stand at  
20 the moment.

21 Lynne Rice's position is permanent as the  
22 office director. The others are all acting positions,

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1 and we'll see how things shake out as we go along. So  
2 I thought I'd bring you all up to speed on that.

3 Reauthorization. Wow. What can I say?  
4 Just for those of you who weren't around at the last  
5 meeting, just a real quick update. MQSA expired on  
6 September 30th, 2002. There's been a delay in  
7 reauthorization that I would characterize as primarily  
8 over concern about physician interpretive skill issues  
9 alone with several other issues and how to deal with  
10 those issues.

11 We have been able to continue to operate  
12 because our inspection and certification authority has  
13 no sunset provision. Reauthorization is really the  
14 reauthorization of appropriations for MQSA to continue  
15 to operate, but our actual authority does not sunset.

16 Senator Mikulski, who is the primary  
17 author of MQSA, originally wanted a portion of the  
18 existing CMEs for physicians to be of a self-  
19 assessment nature and was trying to get that as a  
20 statutory change in reauthorization; that because  
21 there were so many issues surrounding that and there  
22 wasn't a lot of good data, a compromise -- excuse me.

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1 A bad allergy -- a compromise was made in the Senate,  
2 and the Senate passed a two-year reauthorization  
3 without any significant change in the statutory  
4 requirements as they exist.

5 Senator Mikulski had also tried to put  
6 some studies into that bill that the Senate passed to  
7 look at various issues surrounding MQSA, and she was  
8 not successful at doing that. So she was able to put  
9 them in the labor appropriations bill, and I will  
10 quote directly from the bill just so I don't lose any  
11 language for you about the different studies that that  
12 bill requires to take place.

13 The GAO office is slated to evaluate the  
14 demonstration program regarding the frequency of  
15 inspections authorized under the last reauthorization,  
16 and I'll be bringing you up to speed on where we stand  
17 with that inspection demonstration program, and they  
18 are to evaluate the factors that contributed to the  
19 closing of approximately 700 mammography facilities  
20 nationwide since 2001, whether these closings were due  
21 to consolidation or were a true reduction in  
22 mammography availability, and to explore the impact on

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1 different subsegments of the population.

2           You may recall that the GAO a couple of  
3 years ago did a mammography access study, and the  
4 general conclusion at that time was although there  
5 were pockets of the population that may have had some  
6 access issues that overall the existing mammography  
7 facilities and existing number of units in the United  
8 States was able to absorb the capacity for  
9 mammography.

10           And the GAO was also to evaluate the role  
11 of states in acting as accreditation bodies or  
12 certification bodies or both. We have one state, the  
13 State of Iowa, who acts as both a certifier under the  
14 states, a certifier program, and as an accreditation  
15 body.

16           Also, in the labor appropriations bill,  
17 senator Mikulski was able to add several studies for  
18 the Institute of Medicine, and we are currently  
19 finalizing our agreement with the Institute of  
20 Medicine so that they can begin those studies.

21           By the way, I should mention those GAO  
22 studies are supposed to be in 16 months after the date

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1       that the bill was signed.

2               The Institute of Medicine studies  
3       concentrate on ways to improve physicians'  
4       interpretations of mammograms, including approaches  
5       that could be taken under MQSA without negatively  
6       impacting access to quality mammography.

7               They are also being asked the question  
8       what changes could be made to MQSA to improve  
9       mammography quality both in the realm of additional  
10      regulatory requirements and also taking away  
11      regulatory burden or modifying existing regulations.  
12      They state that such reduction or modification in  
13      terms of efficiency are important to eliminate  
14      disincentives to remain in the field of mammography.

15              There also are asked to look at ways,  
16      including incentives, to insure that sufficient  
17      numbers of adequately trained personnel at all levels  
18      are recruited and retained, and how data currently  
19      collected under MQSA could be used to improve the  
20      quality of interpretation of and access to  
21      mammography, including identification of new data  
22      points that could be collected, other approaches that

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1 would improve the quality of and access to mammography  
2 and steps to help make available safe and effective  
3 new screening and diagnostic devices. That report is  
4 due 15 months after the date of the act.

5 So that's where we stand with that. The  
6 reauthorization bill, although passed by the Senate,  
7 is currently in the House and has been sitting there  
8 for a while. As I understand it, there is some  
9 difference of opinion between the House and the Senate  
10 as to how long the reauthorization should be.

11 Apparently the House favors a five-year  
12 reauthorization, and as I said, the Senate's is for  
13 two years. So we'll see where we come out, and I have  
14 no idea how long it's going to take or when and if it  
15 will happen. I certainly hope it will happen this  
16 year and timely, March, early on.

17 I wanted to give you a little bit on our  
18 second subject that Dr. Finder had me talking about,  
19 the inspection demonstration program and give you a  
20 little bit of an update and some very preliminary  
21 results from that.

22 Under the last reauthorization of MQSA,

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1 Congress authorized FDA to perform an inspection  
2 demonstration program to evaluate conducting  
3 mammography inspections less frequently than annually.  
4 In mid-2002, the FDA began an IDP, inspection  
5 demonstration program, to assess whether violation  
6 free facilities could maintain that status without the  
7 scrutiny of annual inspection.

8 We worked with a number of stakeholders to  
9 develop that program, most particularly the Conference  
10 of Radiation Control Program Directors.

11 Approximately 158 facilities ended up  
12 being in the group that was going to get to skip an  
13 annual inspection and an equal number of facilities  
14 ended up in a control group that would continue under  
15 the scrutiny of annual inspection. These facilities  
16 were covered in approximately 14 states and  
17 jurisdictions that agreed to participate in the  
18 program.

19 Our early results show we're not  
20 completely finished in inspecting all of the  
21 facilities that skipped in inspection. That will  
22 happen over the next probably two months. That will

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1 wrap up, but of the group of facilities that have  
2 skipped an inspection and then undergone their delayed  
3 inspection, if you will, only 58 percent of the study  
4 group had no violations compared to approximately 76  
5 percent of the control group.

6 So those are the early results which at  
7 this point seem to say that, you know, annual scrutiny  
8 helps facilities maintain a higher level of non-  
9 violation. But as I said, these are preliminary  
10 results. We need to look at the validity of them and  
11 see if the remaining group has the same trend, and  
12 we'll be doing an extensive analysis on that. We hope  
13 to have results ready during fiscal year 2005, and as  
14 I mentioned, the GAO is also supposed to look at that  
15 same issue.

16 Based on these preliminary results, we  
17 elected not to extend the program to further cycles  
18 and to facilities as soon as the ones who skipped a  
19 year get inspected within the next month or two we'll  
20 revert back to their annual inspection schedule while  
21 we analyze these results.

22 And the last thing Dr. Finder wanted me to

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1 update the committee on is our program to extend  
2 certification to include full-field digital  
3 mammography and our approval of the accrediting bodies  
4 for digital accreditation.

5 Originally we had to come up with a plan  
6 to be able to use, so that facilities could use full-  
7 field digital mammography when it was approved by our  
8 Office of Device Evaluation. At that time we had no  
9 approved accrediting body. So we developed a program  
10 in June 2000 where FDA could extend the existing film  
11 screen certificate for a facility to include the use  
12 of a digital mammography unit if the facility met  
13 certain requirements.

14 The FDDM had to be located within the same  
15 inspection jurisdiction. There had to be a  
16 satisfactory mammography equipment evaluation, a list  
17 of all personnel who would be using it, and their  
18 qualifications, and an annual survey of the unit by an  
19 MQSA qualified medical physicist.

20 And we used that program until we approved  
21 accrediting bodies to take over that function.

22 I'm sorry. In my last minute scramble to

1       come up here, I may have left one of my papers. I'm  
2       sorry. Excuse me.

3               A number of accrediting bodies applied to  
4       us to become accreditors of full-field digital units,  
5       and we have now proved two accrediting bodies to  
6       perform that function. The American College of  
7       Radiology is approved to accredit the GE Senographe  
8       2000, the Fischer SenoScan, and the Lorad Selenia,  
9       State of Iowa, is approved to accredit the GE  
10      Senographe 2000D and the Lorad Selenia.

11             The approved units that are out there on  
12      the market, approved by our Office of Device  
13      Evaluation, are the GE Senographe 2000D, which was  
14      approved in January of 2000; the Fischer SenoScan,  
15      approved in September of '01; the Lorad Digital Breast  
16      Imager, approved in March '02; the Lorad Hologic  
17      Selenia, approved in October of '02; and just the  
18      latest to join that crowd is the GE Senographe DS,  
19      approved in mid-February of this year.

20             Because of that last approval, which no  
21      accrediting body is approved to accredit, we've had to  
22      reinstitute our extension of the screen film

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1 certificate so that the folks can use that particular  
2 unit.

3 There are about a little over 500 digital  
4 units accredited across the country, spread in about  
5 400 facilities, and I know I always get asked this  
6 question. So I got the current number for you. The  
7 current number of total certified mammography  
8 facilities as of April 1st is 9,079.

9 And that concludes my update. I don't  
10 know if you want me to entertain questions, Charlie,  
11 or do you want to move on?

12 CHAIRPERSON HARVEY: Thank you.

13 Any questions from the group? Dr.  
14 Karellas.

15 DR. KARELLAS: Dr. Barr, this is Andrew  
16 Karellas.

17 You mentioned about interpretive skills,  
18 and that was under the work that is going on, I  
19 believe, with the Institute of Medicine.

20 DR. BARR: That's correct.

21 DR. KARELLAS: And you mentioned about  
22 incentives, and Dr. Reicher just spoke in telling us

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1 that the incentives were not very many. He is  
2 actually in the enviable position that he is losing  
3 only a few dollars per case. Some of the institutions  
4 I worked at would look at it as very successful,  
5 meaning losing only a few hundred thousand dollars a  
6 year.

7 So what are we doing in increasing the  
8 incentives so that the new radiologists after training  
9 are motivated to read mammograms and do all of these  
10 things and that way, as Dr. Reicher spoke, that we  
11 want people that they dedicate a good part of their  
12 practice to breast imaging? That way at least  
13 according to the studies they will do better  
14 diagnostically.

15 DR. BARR: Well, we're doing two things,  
16 and the biggest is, you know, spending \$500,000 that  
17 Congress gave us to give to the Institute of Medicine  
18 to look at this issue, and allowing them to, with  
19 their flexibility, to combine, to call in experts from  
20 all around and have the time and the patience and  
21 energy to look at this issue.

22 The second thing we're doing is asking you

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1 all what your ideas and recommendations are for us,  
2 and I think that that will probably be discussion  
3 later on when Dr. Finder talks about regulations that  
4 could be put in place to address some of these issues  
5 or things that are in place now that may hinder the  
6 retention of physicians.

7 So those are the two main things we're  
8 doing.

9 One of the reasons, I think, it didn't get  
10 put in as part of reauthorization is just as you point  
11 out. We don't know the answers to these, and we need  
12 experts like you on the panel and experts that the  
13 Institute of Medicine can pull together to give us  
14 some ideas of how to do that.

15 And I agree with you. It's a very serious  
16 problem. It's certainly one of the reasons I'm  
17 standing here instead of practicing mammography.

18 Does that help?

19 DR. KARELLAS: Yes. Thank you.

20 CHAIRPERSON HARVEY: Any other questions  
21 from the committee?

22 (No response.)

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1 CHAIRPERSON HARVEY: Thank you, Dr. Barr.

2 DR. BARR: Thank you.

3 CHAIRPERSON HARVEY: Our next speaker is  
4 Michael Divine, and he will talk to us on an overview  
5 of MQSA inspection findings and post inspection  
6 enforcement strategy.

7 Welcome, Michael.

8 MR. DIVINE: My name is Michael Divine.  
9 I'm with the Inspection and Compliance Branch of the  
10 division, and I mostly deal with compliance issue,  
11 which is problem facilities, policy relating to how to  
12 deal with problem facilities, and resolution of any  
13 outstanding noncompliant issues with mammography  
14 facilities.

15 The talk today is going to be about an  
16 overview of some important compliance issues that have  
17 changed since the last time this committee met. I'm  
18 going to talk about some regulatory philosophy  
19 involving FDA, and part of that regulatory philosophy  
20 involves the use of warning letters.

21 I'm going to describe what we used to do,  
22 which was in effect the last time this committee met,

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1 and a description of what we do now. Most of this has  
2 to do with how we use warning letters and how we  
3 follow up on inspection problems.

4 Some of the key features of MQSA are also  
5 key features of the way FDA does business is  
6 regulating the industries that we deal with, and one  
7 of those key factors is a balance between compliance,  
8 which is enforcing the law and access to mammography,  
9 which we consider very important; in fact, we consider  
10 the access to mammography so important that we only  
11 use compliance actions or regulatory actions when we  
12 think it's absolutely necessary.

13 And that philosophy carries over in that  
14 we emphasize using voluntary correction by the  
15 facility rather than using actions to fine the  
16 facility or to close them down.

17 Going over this general philosophy, which  
18 as I mentioned covers the entire FDA, allows a firm  
19 that is found to have a problem the ability to correct  
20 the problem before we take regulatory action. This is  
21 based on the fact that we believe that most firms --  
22 and when we talk about mammography, we use the word

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1 "facilities" -- will comply, given the chance, after  
2 notification that they have the problem.

3 And with over ten years of experience in  
4 this program, we have come to the conclusion that that  
5 has worked very well.

6 It is also important for us as an agency  
7 where we know that if we decide to take a facility on  
8 in terms of a regulatory action, that's a very costly  
9 endeavor with the facility. It's very costly for us.  
10 It's time consuming, and we try to avoid that unless  
11 we absolutely need to do that. And so this is part of  
12 why the philosophy works.

13 Now, one of the key features of this  
14 voluntary compliance philosophy is something called  
15 prior notice. This applies across the board in FDA,  
16 and the prior notice philosophy is as long as we  
17 notify the key people that we deal with about the  
18 problem and we warn them that if they don't fix this  
19 problem we're going to take regulatory action, then we  
20 believe that in most cases when you deal with ethical  
21 people, the problem will be corrected.

22 Now, actually for about ten years, about

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1 12 years, the most common method that we have used is  
2 something called a warning letter. Now, we only use  
3 this for a very small percentage of facilities, and  
4 it's only for the most serious violations that we find  
5 during inspection.

6 And when we get to talk about the rates of  
7 noncompliance, you'll get an idea of how small the  
8 number of facilities that actually get warning  
9 letters.

10 A warning letter, obviously, is not  
11 appropriate for any situation where there's a danger  
12 to health. Obviously that impels us to take action  
13 immediately, or whether it's intentional gross or  
14 flagrant violations where they're basically obviously  
15 not even making an effort to comply or there's  
16 something, for instance, that's fraudulent activity at  
17 the facility where criminal violations may be  
18 involved.

19 Those are situations where just sending a  
20 letter is not really appropriate.

21 Warning letters have some key features.  
22 There has to be an identification of the violations

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1 from the inspection, and so what the facility will see  
2 if they get a warning letter is pretty much the same  
3 thing that has been identified on the inspection, but  
4 at this point they're notified that we considered  
5 those violations serious enough that they're getting  
6 this letter.

7 The letter identifies that the violations  
8 are serious in nature. It says that failure to  
9 correct could result in regulatory action, and the  
10 letter lists the type of regulatory actions that they  
11 could be subject to. That includes something like a  
12 directive plan of correction which would put them  
13 under certain obligations to the FDA for a certain  
14 period of time. It could be civil money penalties,  
15 which could be up to \$10,000 per day of violation for  
16 each violation. It could be suspension of their  
17 certificate, which means they could no longer do  
18 mammography.

19 So all of these things are listed in the  
20 letter if they fail to correct the problem, and then  
21 the letter asks that they respond within 15 business  
22 days after they receive the letter to tell FDA what

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1 they are going to do about it.

2 In our program, obviously most people here  
3 know we have annual inspections of facilities, and our  
4 options, as I've already outlined include warning  
5 letters. We can also do follow-up inspections, which  
6 would be between the two annual inspections where we  
7 go in several months after the annual inspection to  
8 assure that they've corrected the problems.

9 And one of the things that we might do is  
10 in lieu of sending a warning letter, we might do the  
11 follow-up inspection or we would do a follow-up  
12 inspection after the warning letter if we felt that it  
13 was important enough to check to see that the things  
14 identified in the warning letter had been corrected.

15 And, of course, in situations where a  
16 warning letter hasn't worked or it's very serious  
17 violations that we think a warning letter is  
18 inappropriate, we can take regulatory action. And  
19 those regulatory actions, and I've already mentioned  
20 some of those already, direct the plans of correction;  
21 suspensions, which would actually close the facility;  
22 revocations, which would not only take away their

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1 certificate, but the owner-operator couldn't have a  
2 certificate for two years after that; civil money  
3 penalties, which I've already mentioned; injunctions,  
4 which are extremely rare. We have never used them,  
5 and that would only be probably necessary in a  
6 situation were we had taken away somebody's  
7 certificate and they continue to do mammography or  
8 they never got a certificate and they refuse to stop  
9 when we warn them to stop when we warn them to stop.

10 The last one, which we consider one of the  
11 most key features of this program is patient and  
12 physician notification, and that would only be done  
13 where we establish that there was a serious risk to  
14 human health at the facility, and that's usually  
15 through additional mammography review, which is  
16 usually done through the facility's accreditation  
17 body.

18 Okay. For many people who have been to  
19 these meetings and are familiar with our program, a  
20 lot of this is overview, but I wanted to go over it  
21 once again because it is specifically involved in the  
22 policy and how we approach these different levels of

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1 observations that we find during an inspection.

2 Level I is a significant violation. This  
3 is the one most likely to be involved, for instance,  
4 if we take regulatory action or if we were to send a  
5 warning letter or do follow-up inspections. There are  
6 which we consider the most serious.

7 The next level down are moderate  
8 violations. These usually don't get a warning letter  
9 unless we have a history of violations at the  
10 facility.

11 And the last level is ones where we don't  
12 generally think that there is going to be a problem  
13 unless there is a lot of these or in conjunction with  
14 other violations they could compromise mammography  
15 quality.

16 This is just an overview of what's been  
17 going on in the last few years, and as you notice on  
18 this slide, things are getting better. I think the  
19 most telling line on that chart is the light blue  
20 line, which is the facilities that have no problems,  
21 and when we get into discussing our new guidance on  
22 warning letters and dealing with inspection

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1 observations, you'll see that dealing with it  
2 differently is going to work out better in the future  
3 because I think you can see the facilities are getting  
4 better every year. The number of violations is going  
5 down. Even at almost all levels it has gotten pretty  
6 small.

7 For those of you who have never been  
8 through an inspection or are not familiar with how  
9 they're done, all of our inspections are done on  
10 computer. We don't have any paper inspections unless  
11 the computer is not working.

12 The inspector goes into the facility,  
13 records the data on the computer, and based on what  
14 they enter into the computer, the inspection will  
15 generate what we call an inspection report, which is  
16 basically a detailed list of what the inspector found  
17 that had a problem.

18 It also includes some data that may not be  
19 a problem but is included anyway, such as the phantom  
20 image score by the inspector, the radiation dose  
21 through testing during the inspection, darkroom fog.  
22 All of these things are included even whether they're

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1 a problem or not just because we feel it's useful  
2 information of the facility to be provided.

3 But there are identifications by level of  
4 all the observations found by the inspector, and then  
5 there's something we call important information about  
6 your MQSA inspection, which is basically an  
7 information sheet that tells the facility where they  
8 stand with regard to that inspection and what we  
9 expect them to do after the inspection.

10 If there were serious or moderate level of  
11 problems, we're going to ask them to respond to FDA in  
12 that document. So it's very important that they read  
13 that, though we also try to get our inspectors to make  
14 sure that they understand it and they explain it to  
15 them verbally so that there's no confusion as to what  
16 they're supposed to do.

17 Once the inspector gets back to their  
18 office, they upload that inspection to us. We try to  
19 get them to send it to us within five business days.  
20 So our inspection database is pretty up to date. In  
21 fact, when we go to look at it, when we find out how  
22 many facilities had a certain problem, it's pretty

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1 recent. We don't usually have to wait weeks or months  
2 to find out what's going on.

3 Okay. Up until the beginning of our  
4 fiscal year, which starts on October 1st, this is  
5 basically how we handle the inspection problems. If  
6 it was a Level I or they had the same Level II problem  
7 for two consecutive inspections, the facility was told  
8 during the inspection to correct whatever problems had  
9 been found as quickly as possible and that they may  
10 get a warning letter.

11 And the reason we used the word "may" is  
12 that in many cases we don't send warning letters  
13 because there is some problem with what they found.  
14 We disagree with maybe what the inspector found. So  
15 it's based on we basically look at everything and we  
16 decide, yes, it's a serious problem or it's not a  
17 serious problem.

18 And if it's a serious problem, we send a  
19 warning letter. And I would say in the vast majority  
20 of situations where you found either Level I or repeat  
21 Level I, we did send warning letters, and in that  
22 letter we asked for a response within 15 business days

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1 after that inspection.

2 With a Level II or consecutive Level III  
3 problems, we generally wouldn't send that letter, but  
4 we still ask for them to respond within 30 business  
5 days after the inspection basically explaining to us  
6 what they've done to correct the problem, and that  
7 doesn't require us to send a letter to the facility.  
8 They would send in their corrective action, we would  
9 look it over, and decide whether it was okay or not.

10 And if it was Level III, that was the  
11 highest problem that they had, it still goes on their  
12 inspection report, but they really don't have to do  
13 anything other than correct that as quickly as they  
14 can, and if there's a problem, we'll check it during  
15 their next annual inspection.

16 So up until October 1st, this is how we  
17 handled inspection observations by policy, and if you  
18 look at our history since 1995, 1995 is when we  
19 started doing inspections to the present. For the  
20 most part we've been sending up to 300 warning letters  
21 a year for inspections out of it started off with  
22 slightly less than 10,000 facilities. We're down to

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1 about 9,000 facilities.

2 If we found problems that we thought were  
3 of serious concern, such as image quality problems or  
4 complaints about quality or where we found a history  
5 of violations, we would do something called additional  
6 mammography review, which in the vast majority of  
7 cases would involve mammograms being sent to the  
8 facility's accreditation body for review. They would  
9 be evaluated by interpreting physicians to decide  
10 whether the quality was a serious risk to human  
11 health.

12 Based on those reviews and some other  
13 problems, we've required 14 facilities to notify  
14 patients over this time period. For regulatory  
15 follow-up, at the same time we've done about 70  
16 follow-up inspections. We've issued five directed  
17 plans of correction letters which required facilities  
18 to implement things that we directed them to do.

19 We've fined two facilities with civil  
20 money penalties for violations that are ongoing. We  
21 have suspended two facilities' certificate, which  
22 basically shuts them down, and there are about 98 or

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1 so similar actions to the actions that we take that  
2 states have taken under their own laws and  
3 regulations.

4 Some of the problems we had, and a lot of  
5 these were internal within the FDA, had to do with the  
6 warning letter ratio to the regulatory action ratio,  
7 and basically there was concern that we were sending  
8 a lot of letters, but we weren't taking a lot of  
9 actions, and this was a concern because basically we  
10 were sending all of these serious warnings out, and  
11 yet it didn't seem that they were always sent for  
12 genuinely serious violation.

13 And example would be a Level I observation  
14 might be that the facility had an unlicensed  
15 physician. Well, that sounds very significant.  
16 However, in the vast majority of situations, most of  
17 these were really administrative issues, where they  
18 had failed to renew their license. It wasn't based on  
19 cause that they have had their license revoked or  
20 anything like that, but it had expired and they hadn't  
21 taken care to send the forms in to get it taken care  
22 of.

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1 Well, it's technically a licensure issue,  
2 and we would send warning letters, and those would be  
3 resolved by sending in the form. So we didn't  
4 consider it to be a significant problem, but  
5 internally within the FDA we're sending this very  
6 significant letter to the facility, and so they said  
7 this is the wrong message to send. You should only  
8 send these letter when it's so bad that the next time  
9 it happens you're going to close them down or take  
10 some serious action.

11 And for a lot of our history, there have  
12 been relatively few enforcement actions for those  
13 numbers of warning letters, and so that caused a lot  
14 of concern.

15 Also, a lot of times when we send warning  
16 letters it's not the first time that they have had  
17 problems. It's that we can establish that there's a  
18 history of problems. In a lot of cases that wasn't  
19 the case when we sent warning letters.

20 There was also some concern that warning  
21 letters may not be as effective a tool for mammography  
22 facilities as they are with other regulated

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1 industries, which could be the drug industry or the  
2 device industry, where warning letters are taken very  
3 seriously and these companies do everything they can  
4 to prevent getting warning letters. I don't think the  
5 radiology community really has the same attitude that  
6 warning letters that -- I don't know if they take it  
7 as seriously as these other industries or not, but  
8 we're not sure that the impact it is going to have is  
9 going to work as well as it would with these other  
10 industries.

11 And there are other approaches that could  
12 be more effective rather than just sending a letter.  
13 A facility with a lot of problems, we could go in and  
14 do a follow-up inspection before sending a warning  
15 letter. At that point we could say, "Well, we found  
16 the serious problem, what looked like a serious  
17 problem." We'd go back in there and find it still  
18 there. Then the warning letter has a lot more  
19 meaningful history behind it than just a single  
20 problem that might go away on its own just because it  
21 was found by the inspector.

22 So basically here's two columns that

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1 basically lay out what we've done since October 1st,  
2 and the big thing is the part that is highlighted in  
3 yellow, is basically rather than just taking the Level  
4 I problem or a repeat Level II problem and sending a  
5 warning letter, what we do is we have sort of changed  
6 it more like the Level I and repeat Level III, where  
7 we have asked the facility to respond.

8 Now, the only difference here is that  
9 we've changed the response time to sort of match up  
10 with the response time for a warning letter. So  
11 basically in all of these inspections, Level I, repeat  
12 Level II, and repeat Level III, we're asking the  
13 facility to respond and tell us what they've done.

14 And in some of these cases where we have  
15 a Level I, but it's quickly resolved and there's not  
16 any ongoing problem at the facility, it prevents us  
17 from having to send a warning letter where the problem  
18 may have already been corrected by the time the letter  
19 is sent.

20 So we believe this is a much better way to  
21 deal with an industry that has consistently over the  
22 years of the program gotten better and better.

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1                   Some of the other steps that we can  
2                   take -- okay. I think my computer just died. Is it  
3                   plugged in?

4                   CHAIRPERSON HARVEY: Michael, do you have  
5                   very many more slides?

6                   MR. DIVINE: I'm sorry?

7                   CHAIRPERSON HARVEY: Do you have many more  
8                   slides? Would you rather we take a break now?

9                   MR. DIVINE: I have about maybe six or  
10                  seven.

11                  CHAIRPERSON HARVEY: Okay. So perhaps  
12                  we'll take a break. Do you think it will be a while  
13                  before -- that takes the pressure.

14                  MR. DIVINE: That would be fine with me.

15                  DR. HENDERSON: Okay. We're all set.

16                  MR. DIVINE: Oh, we've got it? Oh, good.

17                  DR. FINDER: This is Dr. Finder. Just I  
18                  want to point out that this change in the compliance  
19                  strategy or the post inspection follow-up issues was  
20                  discussed with earlier committee members or earlier  
21                  committee meetings, and we're basically implementing  
22                  some of the suggestions that were brought up at those

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1 earlier meetings.

2 MR. DIVINE: Okay. Now, where was I?

3 If we have a facility under this new  
4 strategy or this new policy that doesn't respond to  
5 the Level I or Level II observations, or we find that  
6 the response is not adequate, and when I say the  
7 response is not adequate, I'm not assuming that they  
8 response and we go, "Oh, that's no good," and they do  
9 it and then we are going to do something about it.

10 Basically, if we have an issue, if  
11 something doesn't look right or they failed to address  
12 all of the problems from that inspection report, we'll  
13 probably contact them and call them up and say, you  
14 know, "You didn't address the third Level II on this  
15 inspection report. Could you address that?" or, "we  
16 don't understand what you're doing," or you know,  
17 sometimes the quality of the response is not always  
18 what we would like to see. So we try to resolve that  
19 with the facility.

20 But if we can't get a decent response out  
21 of the facility or we contact them, follow up with  
22 them after the inspection and they still don't

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1       respond, then we may decide to do a follow-up  
2       inspection or we could decide to send a warning  
3       letter.

4               So based on the facility's response to the  
5       inspection rather than just the inspection itself, we  
6       will decide on taking some kind of follow-up action.

7               If we decide, let's say, to do a follow-up  
8       inspection based on the fact that we can't get an  
9       adequate response from the facility or they just don't  
10      respond at all and we go out there and we find  
11      continuing problems, we basically have a lot better  
12      reasons to send a warning letter rather than just  
13      taking the inspection report and deciding on sending  
14      a warning.

15              One, the facility had the problem when we  
16      did the inspection.

17              Two, the facility wouldn't respond or  
18      couldn't respond adequately to address the problems.

19              Three, we went out there and found they  
20      hadn't really corrected the problem at all to our  
21      satisfaction. Now, we're going to send a warning  
22      letter.

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1                   So now this warning letter is a much more  
2                   significant letter, and we're in a much better  
3                   situation if we decide to take regulatory action based  
4                   on the fact that the next time we go in there, they're  
5                   going to have the same serious problem.

6                   If they had been sent a warning letter  
7                   prior to this, that's another thing I wanted to  
8                   mention, is that it's our policy in the FDA that if we  
9                   warned them once, we don't want to have to keep  
10                  warning them. So we don't keep sending these letters.

11                  The term "paper tiger" comes up when we  
12                  talk about sending letter after letter after letter  
13                  while the facility continues to have violations. So  
14                  our policy is if we send a warning letter, it's  
15                  supposed to mean something. The next time they have  
16                  a serious problem, we're going to take some action  
17                  against them.

18                  Another aspect of this, and this is a  
19                  significant difference with the follow-up inspection,  
20                  is when we decide to do the follow-up inspection, it's  
21                  usually prior to sending a warning letter. It's to  
22                  see, well, they responded. Then we do the follow-up

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1 inspection, and then we see if they've corrected the  
2 problem. Then we decide to send a warning letter.

3 Once we've sent this significant letter,  
4 we're sort of obligated to see, well, we've warned  
5 them. Now what are we going to do. And we're not  
6 going to in most cases wait until the next inspection,  
7 which maybe could be, you know, eight or nine months  
8 down the road. Some time within a couple of months  
9 after that inspection, we'll go out to the facility  
10 and do what we call a compliance inspection and then  
11 see have they corrected the problem.

12 So we're building this history up before  
13 we decide to take some serious action, and this  
14 compliance inspection. If we have done the follow-up  
15 inspection which they got charged for that, they get  
16 charged for the annual inspection. We have decided  
17 that we're not going to charge them again for the  
18 compliance inspection. So this one will be paid for  
19 by the FDA.

20 And of course, if they have continuing  
21 problems, we've got a good case that we can take  
22 against the facility. If we were to have to go to a

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1 hearing, we could defend. Look, and we could show  
2 everything we've done to try to work with the  
3 facility, and here we could defend, you know, taking  
4 the action when we decide to do it.

5 So, in summary, we believe this will  
6 result in quicker facility response to serious  
7 observations, the reason being that if we do the  
8 inspection, we have to write the letter. We have to  
9 send the letter. We have to wait for the facility  
10 response. It could take many weeks before we find  
11 out what they're going to do.

12 In this case we want them to respond  
13 within two or three weeks after the inspection. So  
14 we're going to get quicker response with this policy.

15 We believe we get more effective  
16 correction motivated by the prospect of a follow-up  
17 inspection. We believe that raising the possibility  
18 of a follow-up inspection with facilities is more of  
19 an incentive. The fact that when we talked about  
20 warning letters, many facilities may not take it  
21 seriously.

22 They will take it seriously if they have

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1 to take time off to have another inspector come in  
2 there and have to pay many hundreds of dollars to have  
3 that inspection, which they could have avoided by just  
4 resolving the things after the last inspection.

5 So we think that's much more of an  
6 incentive for them to take this issue rather than  
7 having the warning letters. We believe now the  
8 warning letters are going to be much more meaningful  
9 in the sense that these are really the worst  
10 facilities. They're not the ones with the  
11 administrative problem or the documentation issue with  
12 a couple of technologists. These are people that we  
13 have identified as being the worst.

14 And then once we have identified them, we  
15 will warn them, and if they don't correct their  
16 problems, then we can take regulatory action against  
17 them.

18 CHAIRPERSON HARVEY: This is Maryanne  
19 Harvey.

20 Michael, are the inspections that are  
21 done, the second and the third inspection essentially,  
22 are they done by FDA personnel or are they done by the

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1 state people?

2 MR. DIVINE: The annual inspections, which  
3 are kind of surveillance inspections, those are done  
4 under state contract with state inspectors. Almost  
5 all the other inspections are done by FDA, and one of  
6 the reasons is that if we consider it to be a follow-  
7 up inspection or compliance inspection, we have  
8 identified that facility as, you know, a facility of  
9 concern, and we believe that we are in the best  
10 position to document those violations if we decide to  
11 take regulatory action. We want to make sure that  
12 things are done that we don't really have under the  
13 state contracts to do.

14 So basically those are the ones that we  
15 want to do ourselves.

16 CHAIRPERSON HARVEY: Thank you.

17 Ms. Martin.

18 MS. MARTIN: Melissa Martin.

19 I would follow up with a very similar  
20 question to what Maryanne asked. Assuming the first  
21 inspection is done by the contracted state inspector,  
22 it is not infrequent that there has the potential to

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1 be a problem with the inspector's interpretation of a  
2 facility's QC program, whatever led to the violation.

3 On the follow-up inspection, is that  
4 inspector part of the process? In other words, you  
5 said the second follow-up inspection would be done by  
6 an FDA person. Would that same inspector also be  
7 involved either for their learning purposes or since  
8 you have an outside person there?

9 MR. DIVINE: It's possible that the state  
10 inspector might go along with the FDA person, but in  
11 general following-up inspections, the inspector of  
12 record would be an FDA inspector. They certainly  
13 would be involved if they didn't go on the follow-up  
14 inspection, that they would need to be consulted  
15 because if there was any issue with the violation or  
16 the observation, we want to make sure that it was done  
17 correctly. We want to make sure that that is a real  
18 problem.

19 And in many cases, if there was a problem  
20 with the state inspector, for instance, or any  
21 inspector, for that matter, where the problem turned  
22 out to be a non-problem, we want to correct that.

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1                   So we want to make sure that that's  
2                   avoided. We don't want to do follow-up inspection  
3                   based on inaccurate information or where the inspector  
4                   may have made a mistake. In fact, this policy sort of  
5                   avoids sending the warning letters to those facilities  
6                   where there is an error because there have been cases  
7                   where we've had to reverse violations.

8                   So I think that that's not going to really  
9                   be a problem.

10                  MS. MARTIN: Okay. Well, can I raise one  
11                  more?

12                  Just the scenario, keep following that  
13                  scenario. Are there any provisions being developed so  
14                  that a facility has the equivalent of an appeal? In  
15                  other words, if they are very unhappy with their  
16                  review, their initial review, is there a way to  
17                  request an appeal by a more experienced inspector or  
18                  an FDA inspector basically to clear their record?

19                  MR. DIVINE: yeah, actually since 1995, we  
20                  have had a policy in effect that if any observation on  
21                  inspection is disputed, that's handled at the district  
22                  office level of FDA. It's not handled at the state.

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1 We do an investigation, basically contact the  
2 inspector, contact the facility, analyze whatever  
3 information they have available.

4 If we believe the inspector was correct,  
5 we would tell the facility we support this particular  
6 problem as being real. If we agree with the facility,  
7 we tell the facility that we changed the inspection  
8 result, not only send them a corrected report, but we  
9 also change the data in the computer so that it  
10 doesn't come up as a repeat problem, and we do reverse  
11 that.

12 So we've had this policy in effect, and we  
13 have done it in many cases.

14 CHAIRPERSON HARVEY: Dr. Ferguson.

15 DR. FERGUSON: Yes. Scott Ferguson.

16 I've got a couple of questions. One of  
17 them has to do with previous administrative things  
18 that you say are not as meaningful but may have been  
19 listed as a Level I violation. In your new policy,  
20 you say, well, if they previously had warning letters,  
21 we will look towards regulatory action or we'll look  
22 at them more firmly.

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1                   Is there any way to look back at previous  
2           I don't want to say "meaningless," but administrative  
3           violations that may have been a Level I with a warning  
4           letter? Are those going to be some consideration for  
5           them rather than, you know, two strikes and you're  
6           out?

7                   MR. DIVINE: Yeah, to make up a short  
8           overview of the regulatory process in terms of when we  
9           take regulatory action, and it's pretty complicated.  
10          Basically, let's say if a facility got a warning  
11          letter a couple of years ago and it was for, let's  
12          say, an administrative issue, and I'll use an example  
13          where the facility has no documentation on whether a  
14          physician is Board certified or had two or three  
15          months' training in mammography, which is one of our  
16          Level I problems.

17                   So we do the inspection. They don't have  
18          that. As a result of that missing documentation, they  
19          have a warning letter. They finally were able to get  
20          a copy of whatever they need. They send it in. We're  
21          comfortable that problem is closed out.

22                   Several years later, a similar problem

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1 comes up with another person at the facility. It's  
2 resolved in the same manner. We don't really consider  
3 it to be a problem. The fact that they got a warning  
4 letter in the past may indicate that this is a  
5 facility of concern, but if we decide to take  
6 regulatory action against that facility based on that,  
7 then we have to basically put a case together. We  
8 have to defend it. It has to be cleared by our  
9 attorneys. They generally tend to be conservative.  
10 They're probably not going to fake that case. If it  
11 was on my desk, I probably wouldn't approve it either.

12 So I don't think that even though we have  
13 some warning letters that we may be a little regretful  
14 that had been sent years ago, I don't think those  
15 letters are going to come back to haunt those  
16 facilities because if the case is built based on that  
17 kind of a problem, it isn't going to get through our  
18 office as being something we're going to take  
19 regulatory action against the facility, and hopefully  
20 in the future we're not going to be sending letters  
21 like that in the future now.

22 DR. FERGUSON: Very good. Secondly, when

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1 are things supposed to go on the Internet, violations  
2 or citations?

3 MR. DIVINE: We don't post inspection  
4 results by facility on the Internet unless they did  
5 get a warning letter, and this is not -- the posting  
6 of warning letters is FDA policy. It's not MQSA  
7 policy, but the Freedom of Information Website of FDA  
8 posts all warning letters.

9 And those are usually posted -- it's hard  
10 to tell. It depends on when they -- they send out the  
11 warning letter after the inspection, which may be  
12 three weeks after the inspection or less, maybe a  
13 week. Then they send a copy to our headquarters  
14 office for the Freedom of Information. Then they will  
15 scan that warning letter, and it will get posted on  
16 the Website, and that may take a couple of months.

17 DR. FERGUSON: Is that all levels? Well,  
18 it would be a warning letter. So those are only sent  
19 for the most serious problems. So if somebody had a  
20 Level II problem, we wouldn't post any information on  
21 the Internet about them at all.

22 DR. FERGUSON: But licensing,

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1 administrative type issues, and I know a facility this  
2 happened to with an RT and it was posted, and it was  
3 clarified pretty rapidly, but they were told that it  
4 had to stay on the Website for one year.

5 Is that policy? Is that --

6 MR. DIVINE: I don't know the FDA policy  
7 about removing warning letters if there is a policy of  
8 removing letters from the Website. Basically we don't  
9 have any control over that in our office. Basically  
10 our field offices are the ones that send out warning  
11 letters.

12 They're supposed to send a copy to the FOI  
13 Office, each warning letter they send, and then that  
14 warning letter gets posted.

15 I will say that any facility that requests  
16 that their response to the warning letter be posted,  
17 it's FDS policy to post the response as well, but I  
18 don't know if there's any policy of removing warning  
19 letters.

20 DR. FERGUSON: I see somebody coming  
21 forward. She may address that.

22 DR. BARR: Yes, this is Dr. Helen Barr.

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1                   One other thing we do post, too, which  
2                   could be what you're referring to is Congress makes us  
3                   post every year available to the public adverse events  
4                   or adverse actions that were taken against facilities.  
5                   We publish all of the actions that we've taken and all  
6                   of the actions that states have taken that are  
7                   equivalent to MQSA actions.

8                   And that report goes up, and then is  
9                   replaced by a current report every year. So it's  
10                  possible that that's what is being referred to. So  
11                  that's another way that actions that we've taken are  
12                  available to the public.

13                  DR. FERGUSON: But is that with a warning  
14                  letter or is that your whole inspection process?

15                  DR. BARR: That's separate from the  
16                  warning letter issue. That's actions that we've  
17                  taken, as Mike identified, like directed plans of  
18                  corrections requiring facilities to undergo additional  
19                  mammography review and patient notification, state  
20                  sanctions that are equivalent to MQSA, any type of  
21                  action that we've taken against a facility.

22                  It's not specifically, you know, that you

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1 got a Level II violation during your inspection. It's  
2 if that rose to an action taken by us or the state.

3 Does that help?

4 DR. FERGUSON: That helps. Thank you.

5 CHAIRPERSON HARVEY: Any other questions  
6 from the committee?

7 (No response.)

8 CHAIRPERSON HARVEY: Thank you.

9 I think it's time for our break. Shall we  
10 come back at 20 minutes? Five minutes of 11.

11 Thank you.

12 (Whereupon, the foregoing matter went off  
13 the record at 10:34 a.m. and went back on  
14 the record at 11:00 a.m.)

15 CHAIRPERSON HARVEY: On the record. This  
16 meeting is readjourned. We are now on to the area of  
17 our meeting today that deals with mechanisms to reduce  
18 the regulatory and inspection burden on facilities.  
19 These are the directions for discussion which I will  
20 read.

21 "It is almost a decade since the  
22 regulations implementing the Mammography Quality

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1 Standards Act were first put into effect. It is  
2 therefore appropriate and timely for all the  
3 interested parties to review the current program  
4 acknowledging the substantial progress that has been  
5 made, thanking all the dedicated individuals who  
6 worked so hard to improve mammography services and  
7 looking ahead to assure that the gains that have been  
8 made can be sustained into the future. Congress is in  
9 the process of reauthorizing MQSA and has asked the  
10 Institute of Medicine to provide it with a report on  
11 the current status of mammography and mammography  
12 regulation with recommendations for improvement and,  
13 in turn, it is the main focus of this committee  
14 meeting to identify ways to make the process more  
15 efficient and less burdensome for all participants.

16 In preparation for this meeting, the  
17 Committee received documents relating to the current  
18 facility regulations, items reviewed during the annual  
19 MQSA inspection and the occurrence of inspection  
20 violations over the past three years. These same  
21 documents were available to the public on our website  
22 and as handouts for this meeting. The goal of the

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1 next portion of this meeting is to obtain the  
2 Committee's expert opinion on ways to streamline the  
3 inspection process and reduce the regulatory burden on  
4 facilities while still maintaining or improving  
5 mammography quality.

6 Because this is such a large topic, we  
7 will divide it into four subtopics: Personnel;  
8 Equipment and Quality Control; Medical Records and  
9 Audits; and All Other Areas. Each subtopic will be  
10 lead by its own discussion leader. It is anticipated  
11 that at the end of this process we will provide the  
12 Institute of Medicine with our comments." Do any of  
13 the Committee members have any questions at this time?  
14 Okay. Excellent. Then we will begin with Personnel  
15 issues and Amy Rigsby will be our discussion  
16 moderator.

17 MS. RIGSBY: The Personnel issues are on  
18 pages one through five in the Facility Regulations.  
19 They are addressed and the Inspections questions on  
20 page six through eight. They are quite lengthy, but  
21 Personnel deals with the interpreting physicians, the  
22 technologists and the physicists. It involves initial

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1 qualifications, their licenses, continuing education,  
2 continuing qualification, number of mammograms read,  
3 number of mammograms performed by the technologists,  
4 but for the physicists number of facilities inspected.

5 Personally our inspector is great. She  
6 comes in. She's there two days. We have two  
7 facilities. She makes it very easy for us. Some of  
8 the suggestions that I thought about for facilities if  
9 they don't already do this is to have everything ready  
10 for the inspector when they come - it makes it much  
11 easier - and to have everything that we know that's in  
12 writing already accomplished.

13 It's kind of hard for me to understand why  
14 someone would know that they are having an inspection  
15 and not have current licenses, current things that  
16 they know that's going to be looked at because they  
17 forgot to renew or they didn't renew. It's just a  
18 little hard for me to understand why someone wouldn't  
19 do that when they know it's a law, when they know that  
20 they need to do that. I know it happens.

21 Personally I'm not in favor of making a  
22 longer time in between inspections. I think one year

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1 is good. We prepare for it all year by keeping up  
2 with it. Two years, I think we really would find that  
3 there's going to be more violations or more things  
4 that aren't kept up with.

5 People are basically procrastinators. I  
6 mean I am too in a lot of things. So if we think we  
7 have two years, we're going to wait until just about  
8 time for the inspection to make sure everything's all  
9 right. Sometimes if we wait too long, then the  
10 inspector gets there and we don't have time to get  
11 everything done. So a year time, if somebody's not  
12 going to keep up with things, at least it's only going  
13 to be a year and not two years. This is my personal  
14 opinion. But does anyone have any suggestions how the  
15 inspection process could be better for facilities?  
16 Easier?

17 CHAIRPERSON HARVEY: Maryanne Harvey. I  
18 would play devil's advocate and I would suggest that  
19 we look at this from a different viewpoint. We can of  
20 course look at each one of these and decide whether or  
21 not any particular item is important and they are all  
22 important. That's how they got in here initially.

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1 People cared a lot and it was important for us to  
2 establish this.

3 But I would suggest that perhaps what we  
4 need to do is come at it from a different viewpoint  
5 particularly as it deals with continuing education and  
6 interpretative results. I'd like us to move away from  
7 looking at all the details and towards an outcome-  
8 oriented inspection report that looks at  
9 interpretative skills, that looks at the medical  
10 audit, that looks at clinical images, that looks at  
11 some surrogate like a phantom image.

12 So I throw out to the group not just how  
13 should we look at this. Can we look at this as a  
14 changing a dramatic change and what we might  
15 recommend, knowing how hard we've worked and knowing  
16 from our experience as regulators that it's important  
17 to keep people focused on the quality, but also  
18 understanding that we need to look ahead for the next  
19 10 years, next 20 years? Mammography is challenged  
20 severely and I can't see it getting any better  
21 considering how short everyone is of money and how  
22 difficult it is for us to be able to get all the

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1 regulations in place and still maintain quality.

2 One of the issues that came up before that  
3 which surprises me every time I hear it is we're down  
4 to 9,000 facilities. We have one million additional  
5 women reaching the age of 40 which means a lot more  
6 people, women who need to be served. As we get older,  
7 of course, we need additional services. So I think  
8 I'd like to open up to the Committee also an idea that  
9 we look at different ways that we might meet  
10 qualifications for interpretations other than the ones  
11 that are currently in the regulations. Ms. Martin?

12 MS. MARTIN: Well, I think I'm opening up  
13 Pandora's box but I really think it's something we  
14 need to think about. You asked us to think about what  
15 will change between now and the next ten years. The  
16 current scheme is very paper-based. Every facility  
17 has to have a hard copy of every piece of paper on  
18 every physician, every technologist, every physicist.

19 I think it is seriously time we go to the  
20 age of computerized database so that once a physician  
21 -- I will use our example. We have one system, I  
22 guess I would call it, that has eight major centers.

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1 There are currently 72 radiologists in that group, 36  
2 of which practice mammography interpretation.

3 I find it incomprehensible what good it  
4 does to require those facilities to have eight  
5 separate copies of identical paperwork on the same 36  
6 radiologists. There is some way we need to move into  
7 a database so that the radiologist and the  
8 technologist have their current CEUs and approved.  
9 That should be enough. We ought to have a computer  
10 base where the inspectors can go in and find if this  
11 physician is current. That should be the end of the  
12 questions. We don't need eight separate copies.

13 And the same would go for the physicists.  
14 I cover personally about 100 facilities which means I  
15 have to give 100 separate copies of every education  
16 certificate I have to those facilities. Somehow we  
17 ought to have one database that says this physicist is  
18 approved, current and that's the end of the  
19 discussion. There's no reason we can't have that.

20 CHAIRPERSON HARVEY: Do you see that as  
21 state created?

22 MS. MARTIN: No, it has to be national.

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1 CHAIRPERSON HARVEY: National. Yes. Dr.  
2 Timins.

3 DR. TIMINS: Julie Timins. A number of  
4 people have discussed the issue of the personnel  
5 records with me and I agree that it would be best if  
6 there were a centralized record. Whether it would be  
7 at the state level, there are some state regulatory  
8 agencies or state medical societies who are willing to  
9 do this or at the level of a national association such  
10 as the American College of Radiology. It doesn't have  
11 to have one for all purposes, but there should be the  
12 option of a computerized database that is perhaps  
13 updated annually. Our main problem is the rolling  
14 dates of the inspections and how to deal with that.

15 CHAIRPERSON HARVEY: Dr. Karellas.

16 DR. KARELLAS: Andrew Karellas. There is  
17 no question about it that we need to move to a  
18 computerized form. At the very least, I think  
19 inspectors should be able to accept scanned and  
20 printed documents if necessary. Potentially there are  
21 organizations that they could do that versus putting  
22 the burden on the state or Federal Government to

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1 create databases for credentials. I just don't think  
2 that's an easy thing to do at the government level.

3 I believe this is done far better with  
4 societies, private contractors, but the FDA and the  
5 state governments should either have access or they  
6 should be authorized to have an access. Or when the  
7 inspector comes, the documents could be presented on  
8 the screen one after the other for the inspector to  
9 see and a copy should be available. I believe this is  
10 a fairly low tact to do that. Even institutions could  
11 start that. However, I think the first thing we  
12 should do is that we should recommend that this is an  
13 accepted way of presenting the data.

14 CHAIRPERSON HARVEY: Dr. Ferguson.

15 DR. FERGUSON: Scott Ferguson. I'll just  
16 chime in. I agree 100 percent. We need a centralized  
17 database and I also agree it needs to be national if  
18 possible. I live in a border city and I cover more  
19 than one state and to be able to have the information  
20 available and not to present it. It always comes up.  
21 I have to fax stuff to a facility every time.

22 The warning letter I talked about earlier

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1 from a facility, I actually had an R.T. who had  
2 practiced mammography, had been through several  
3 inspections, had one inspector come in 15 years  
4 earlier and said "I don't see any documentation of  
5 your initial training." She got a level one posted on  
6 the Internet and that facility for a year had that  
7 posted. If you had centralized credential, it would  
8 be very simple to access that information.

9 CHAIRPERSON HARVEY: Well, certainly, the  
10 radiological technologists have theirs centralized.  
11 Whenever the state wants to know about whether an  
12 individual's licensed, we can just go to that central  
13 point and that has worked very well. I don't see that  
14 we often have a problem in which it doesn't represent  
15 the existing case. Of course, New York now has  
16 standard capabilities. Many states do. You can look  
17 up whether people are currently licensed and  
18 registered. Ms. Martin?

19 MS. MARTIN: Do the MQSA inspectors honor  
20 that? Will they take an on-screen display? I thought  
21 it had to be hard copy.

22 CHAIRPERSON HARVEY: I don't know.

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1 DR. FINDER: This is Dr. Finder. Actually  
2 one of the questions that we're going to raise later  
3 on in the meeting on Guidance is the issue about  
4 scanned documents. I believe that they can accept it.  
5 I think we want to go out with some guidance to make  
6 it clear that it is acceptable.

7 The other thing that you mentioned earlier  
8 is you needed eight copies of whatever or 50 copies or  
9 100. For facilities in which they have basically the  
10 same group that controls them, we have said that they  
11 could have one set of books, one set of documentation,  
12 and just bring it around for each of the inspections  
13 so they don't have to do this. But I think the idea  
14 of having this in an electronic format would make it  
15 easier to move things around.

16 Some of the issues -- This is not a new  
17 issue about centralized databases and the  
18 difficulties. I just wanted to know if the Committee  
19 wanted to talk a little bit about at least some of the  
20 perceived complications or problems that we have or  
21 have thought about trying to centralize these types of  
22 systems such as who would have access to it, who could

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1 put in information, how do you identify individuals  
2 uniquely. One of our big problems obviously is that  
3 people's names are very similar. Even the same person  
4 sometimes gets identified by different names at  
5 different facilities.

6 So these are the types of issues that  
7 we've thought about in the past and to say nothing of  
8 the cost to try and set up a computerized system.  
9 There are also privacy issues that would have to be  
10 dealt with. The reason that we're basically facility-  
11 based in terms of inspections is because the way our  
12 law is written, the way our regulations are written  
13 and the practicality. We do have an inspector. He's  
14 going to be there every year.

15 However, this is the time, ten years into  
16 the program, in which we are looking for new  
17 suggestions and ways to do it. Just because we  
18 couldn't figure out a better way to do it ten years  
19 ago doesn't mean that we can't come up with something  
20 better now. So if the Committee wants to discuss not  
21 only the advantages which I think everybody recognizes  
22 of having a centralized system, but maybe some of the

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1 disadvantages and ways to overcome them, I would be  
2 very interested in hearing.

3 CHAIRPERSON HARVEY: Ms. Mount, did you  
4 have something you wanted to say before?

5 MS. MOUNT: Carol Mount. I just want to  
6 comment that our facility has used the Internet to  
7 check both technologist's license and physician's  
8 license who happen to be out of the country.

9 CHAIRPERSON HARVEY: Yes. Dr. Karellas.

10 DR. KARELLAS: Andrew Karellas. The first  
11 level would be to make it acceptable for individual  
12 facilities or groups of facilities to use a  
13 computerized form. I believe that this is the  
14 quickest and easiest way to do and as mammography  
15 facilities are consolidating as multi-facilities.

16 As Ms. Martin pointed out if these  
17 facilities would digitize or scan their documents,  
18 then each facility would be ready all the time and if  
19 somebody wanted them, they could be just printed.  
20 That does not apply just to the credential issues, but  
21 also to QA seeds. There is a huge amount of storage  
22 space that is occupied by very heavy folders of all QA

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1 materials and this is putting an added burden on the  
2 facilities today.

3 DR. FINDER: It's Dr. Finder. I want you  
4 to keep that in mind because when we come to the  
5 afternoon session, we're asking that exact question.  
6 What's acceptable? Under what conditions? We don't  
7 want to forget that.

8 DR. RAMOS: Yes. This is Catalina Ramos.  
9 I just want to keep in mind all the time. It seems  
10 like the electronic records are the best way to go.  
11 However, when we talk about access and the majority of  
12 us I think come from big facilities and if you go to  
13 facilities that are very small places, rural areas,  
14 you will see that people do not have all the  
15 resources, do not have all the skills.

16 If you are talking about computers, if you  
17 don't have the right computer, most likely you will  
18 not be able to store all the documents that you need  
19 to have. That is one of my main concerns that when  
20 facilities are closed usually they are closed because  
21 they are very small, they are in rural areas and they  
22 cannot afford the access to be certified or be

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1       recertified and there are more and more women in the  
2       rural that will not have access because of this.

3               MS. PURA: Linda Pura. Is it possible to  
4       split the responsibility of the site when it comes to  
5       continuing experience versus continuing education?  
6       Continuing education for other certifications such as  
7       nursing which I'm involved in, we are responsible for  
8       our own continuing education records and we maintain  
9       them and report those and those could easily as been  
10      stated be put into a computer system if that was  
11      available. Then, of course, the continuing experience  
12      would be onsite information which the facility would  
13      have. So can those be split? The responsibilities is  
14      something that would be an option.

15             DR. FINDER: Are you asking me?

16             MS. PURA: Yes.

17             DR. FINDER: Everything is open for  
18      discussion. I would imagine there are good points and  
19      bad points with everything. How are you going to get  
20      and who is going to have access for the ability to  
21      check people's CME if they weren't issued? How are  
22      you going to get that information in?

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1 MS. PURA: I would imagine that would be  
2 something that would have to be aligned with the state  
3 credentialing offices and most of them are under the  
4 Department of Health Services. So there would have to  
5 be some sort of an alignment or agreement that it  
6 could be done.

7 DR. FINDER: Right.

8 CHAIRPERSON HARVEY: Ms. Martin.

9 MS. MARTIN: Well, again I come back to  
10 where do we go in the next ten years. I think we've  
11 heard a couple of talks already this morning and Dr.  
12 Ferguson alluded to it. I think we have to start  
13 thinking of regional or even national interpretation  
14 centers as we move into the age where you can send an  
15 image anywhere and have it interpreted in any  
16 location.

17 As was said earlier, I would rather have  
18 the expert sitting in another state interpret the  
19 image than the person who is the inexperienced  
20 radiologist. I think we have to look at some method  
21 to establish credentials that are accepted nationwide.  
22 That's where I was going with this. It's so that

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